

FORECAST 2030:SCENARIOS OF THE DAIRY MARKET

27. May 2019 St. Petersburg, Russia

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Agenda

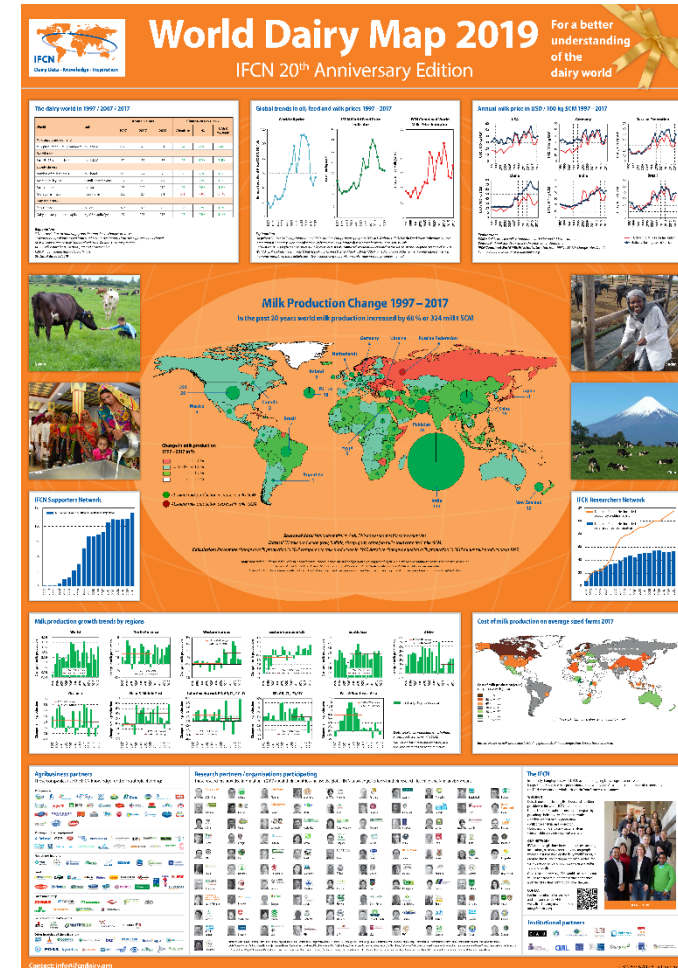
1. The IFCN concept

2. The situation today

3. The last 20 years

4. The outlook to 2030

5. Summary



The IFCN Network



Mission

Create a better understanding of the dairy world by providing comparable data, knowledge and inspiration.

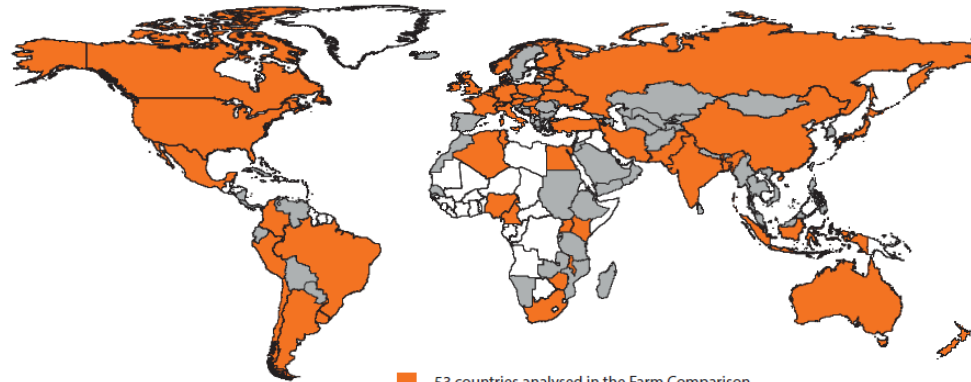
The IFCN Network Approach – 3 knowledge pillars



Status of the IFCN Network in 2019



Research partners in over 100 countries



53 countries analysed in the Farm Comparison
60+ countries participated in the Country Pages



Supporting partners (> 130)

Milk processing

Milking and barn equipment

Health and hygiene

Feed

Farm machinery

Genetics for animal & plants

Other branches of the dairy chain



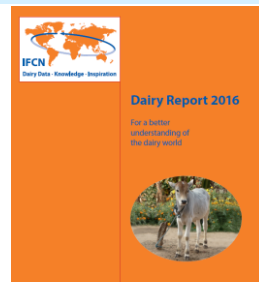
IFCN - An ongoing knowledge creation system



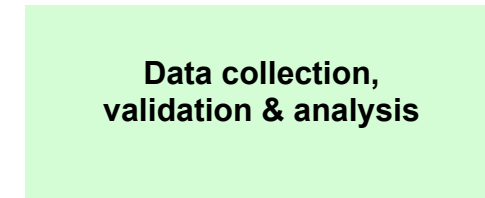
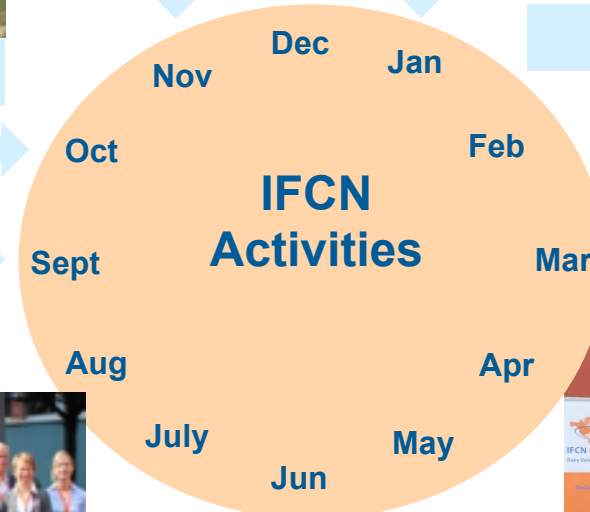
IFCN Regional Workshop - India



Kick off meeting



Dairy Report 2016
For a better understanding of the dairy world



Data collection, validation & analysis



IFCN Supporter Conference



IFCN Dairy Conference



Agenda

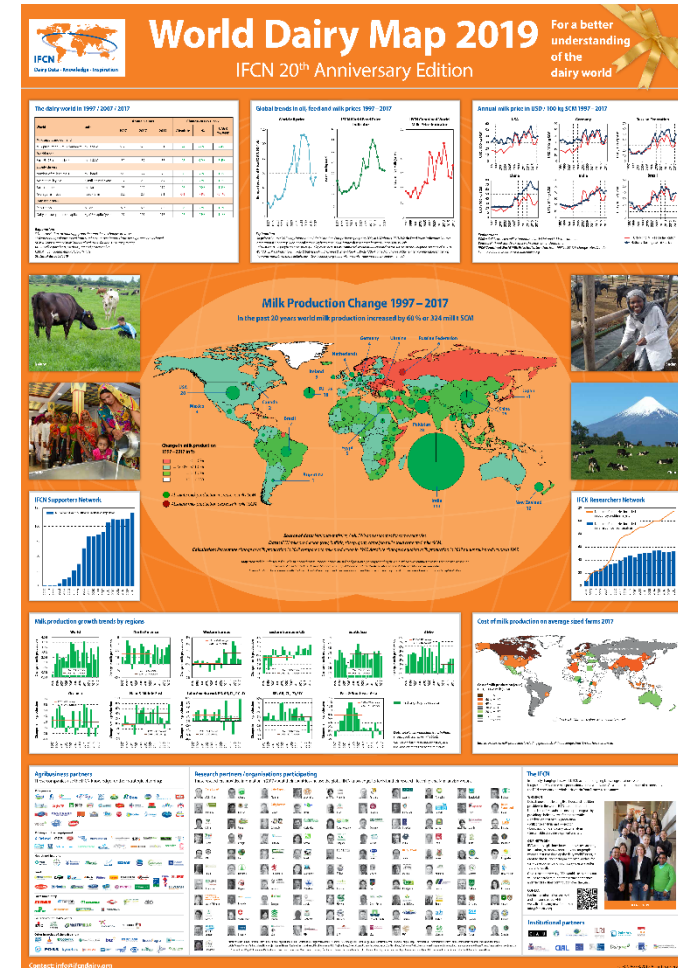
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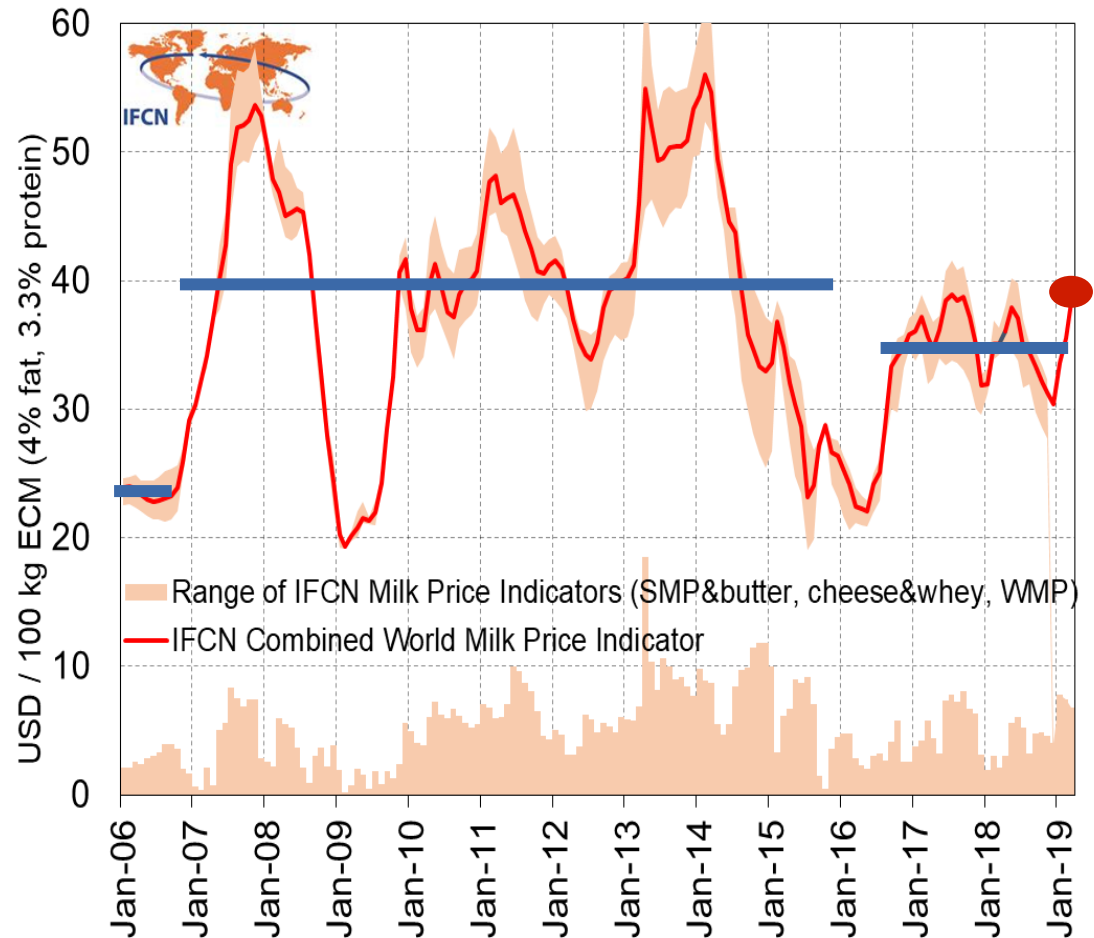
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World Milk Price 2006 – 2019 + forecast 2020



Price levels (simplified)

2000 – 2006 – 25 \$/ 100 kg

2007 – 2015 – 40 \$/ 100 kg

Since 2017 – 35 \$/ 100 kg

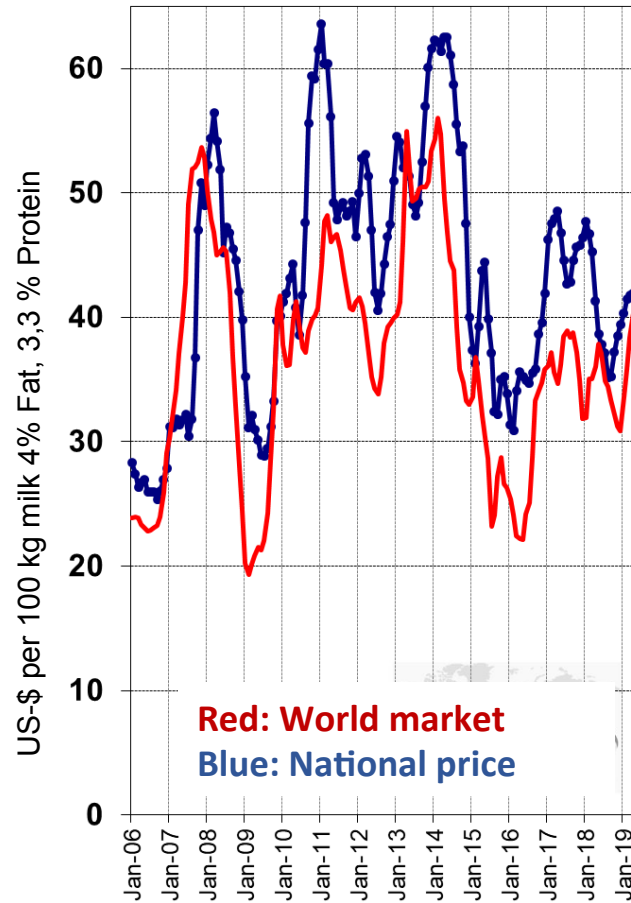
April 2019 – >40 \$/ 100 kg

Key driver for price volatility :
Milk supply and its delay
to respond to price signals

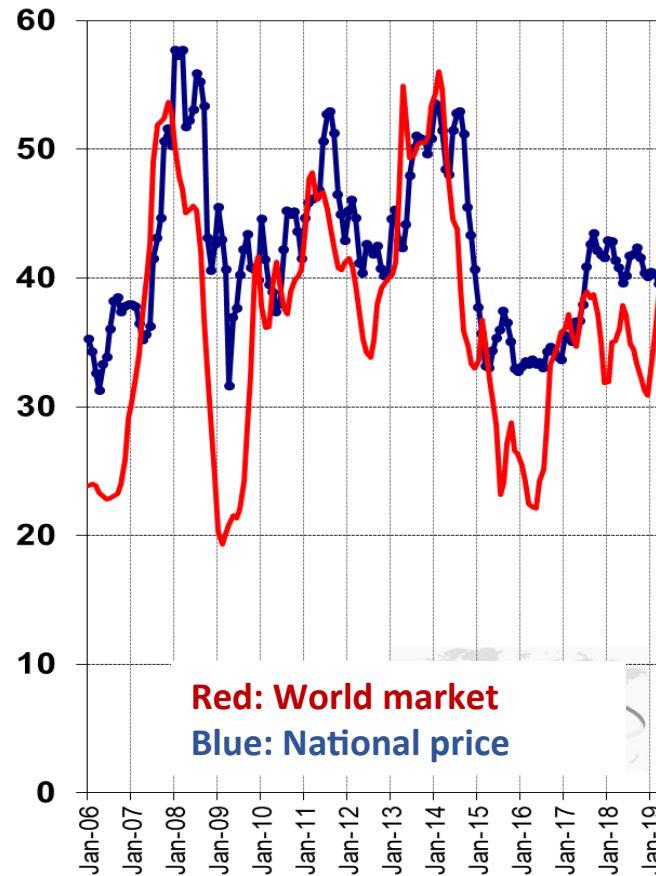


Relation of World to National Milk Price

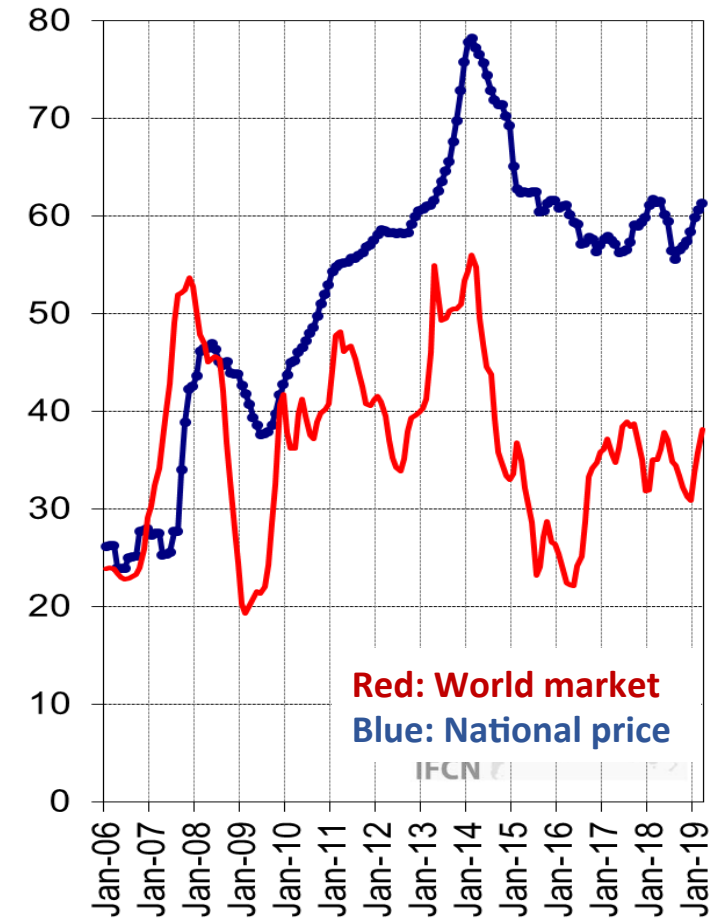
Russia



Germany



China



Agenda

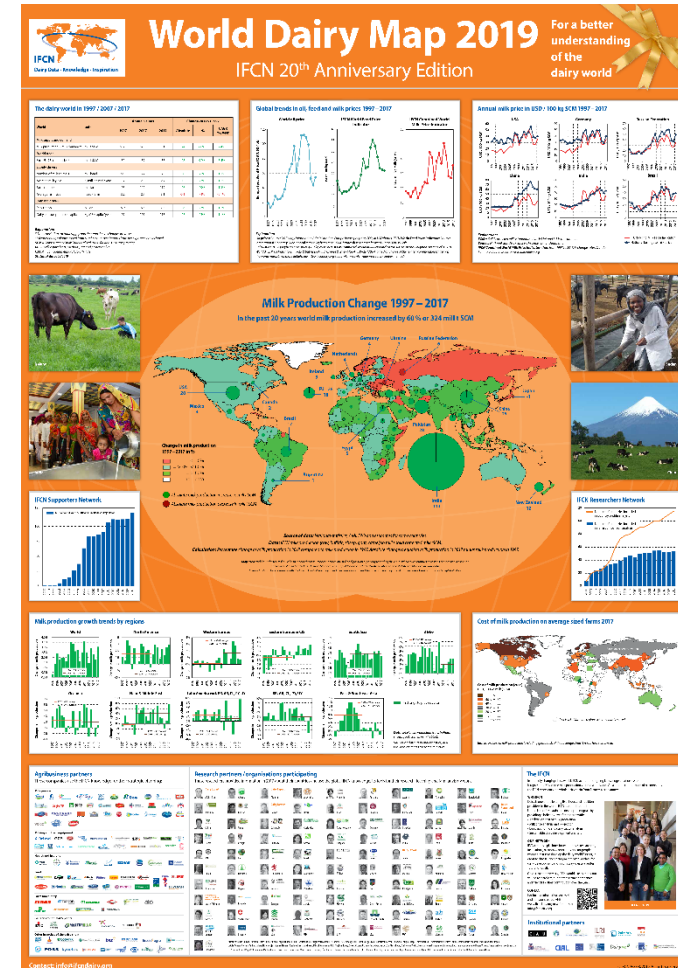
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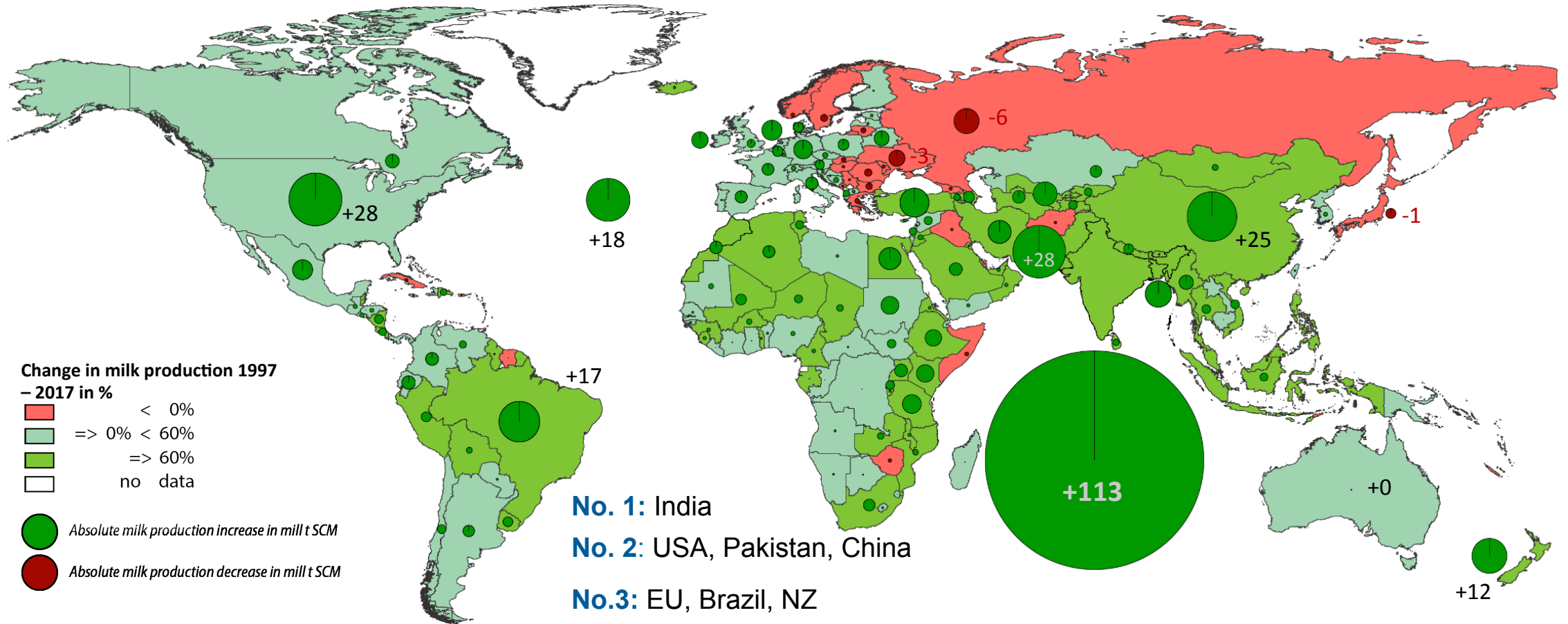
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1997 – 2017: +60% Milk Production Growth

= 324 mill t milk all species, SCM corrected

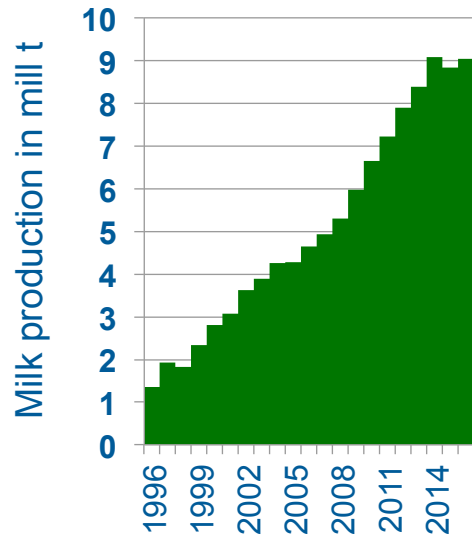


- No. 1:** India
- No. 2:** USA, Pakistan, China
- No.3:** EU, Brazil, NZ
- Decline:** Russia, Ukraine, Japan, SE/NO

Patterns in dairy region development

Rockets

NZ South Island

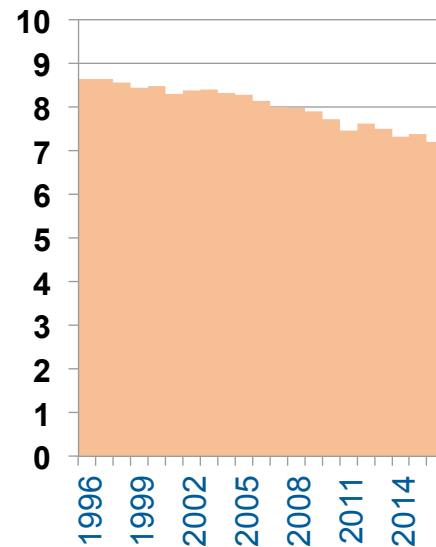


CAGR + 5-10%

e.g.: Idaho, Rajasthan, Andhra Pradesh, Bihar

Step backs

Japan

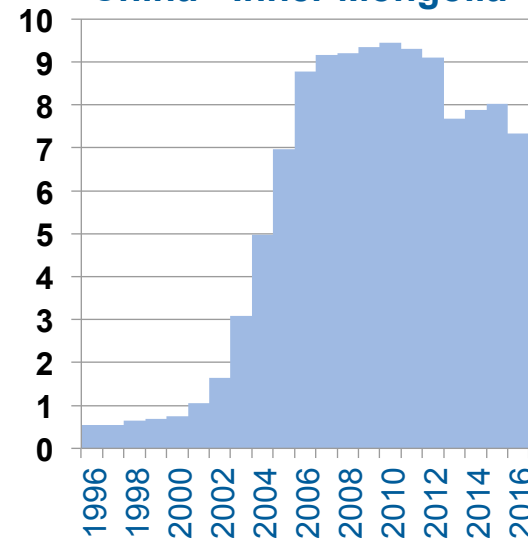


Steady decline

e.g.: Japan, Korea, weak regions in EU

Mountains

China - Inner Mongolia

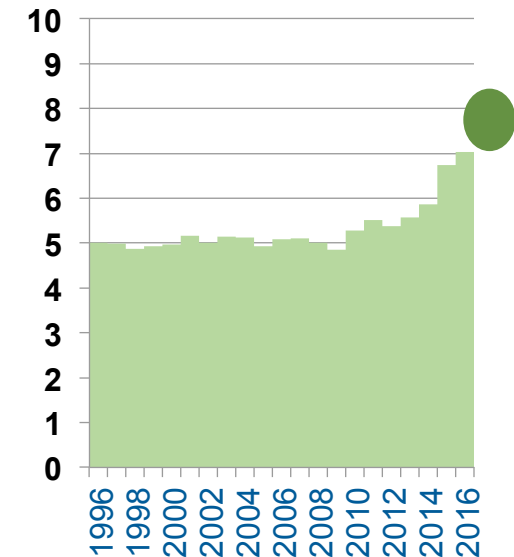


Rise and decline

e.g.: China, Australia?, California?

Wake-ups

Ireland



Sudden change

e.g.: EU regions after quota



2020 IFCN Research Conference planned in Russia

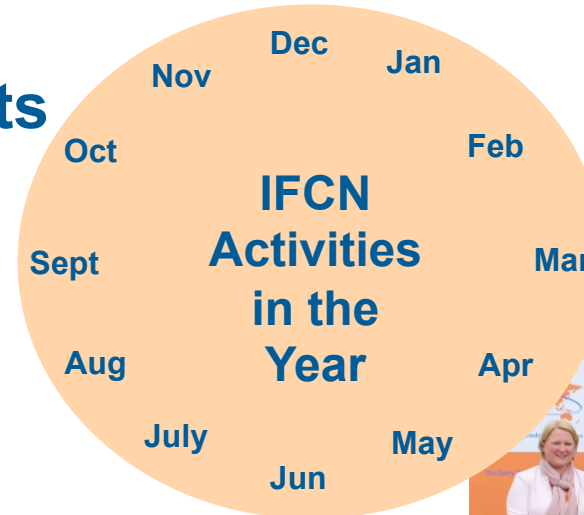


1. The Research Topic: How to stay or become a competitive dairy region.

2. Moscow/ Pereslavl 7- 10 June 2020 with Russia Dairy News

3. Participants: Dairy economists from > 40 countries

4. Sponsor opportunities: Once you are excited about this idea and what to be part of the event please contact us



IFCN Dairy Research Conference 2018 Ireland



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Dairy Outlook 2030

IFCN
Dairy Data - Knowledge - Inspiration

CURIOUS? YOU SHOULD BE!

THE DAIRY WORLD 2017 vs. 2030

 Milk production: + 304 mill t Approx. 3 times of the current USA milk supply	 Milk production per farm: + 54%
 Per capita milk consumption: + 16%	 Average milk yield: + 23%

 Until 2030, global population will increase by 16% to 8.7 billion people, so 1.2 billion more consumers will demand milk products.



IFCN Long-term Dairy Outlook - concept

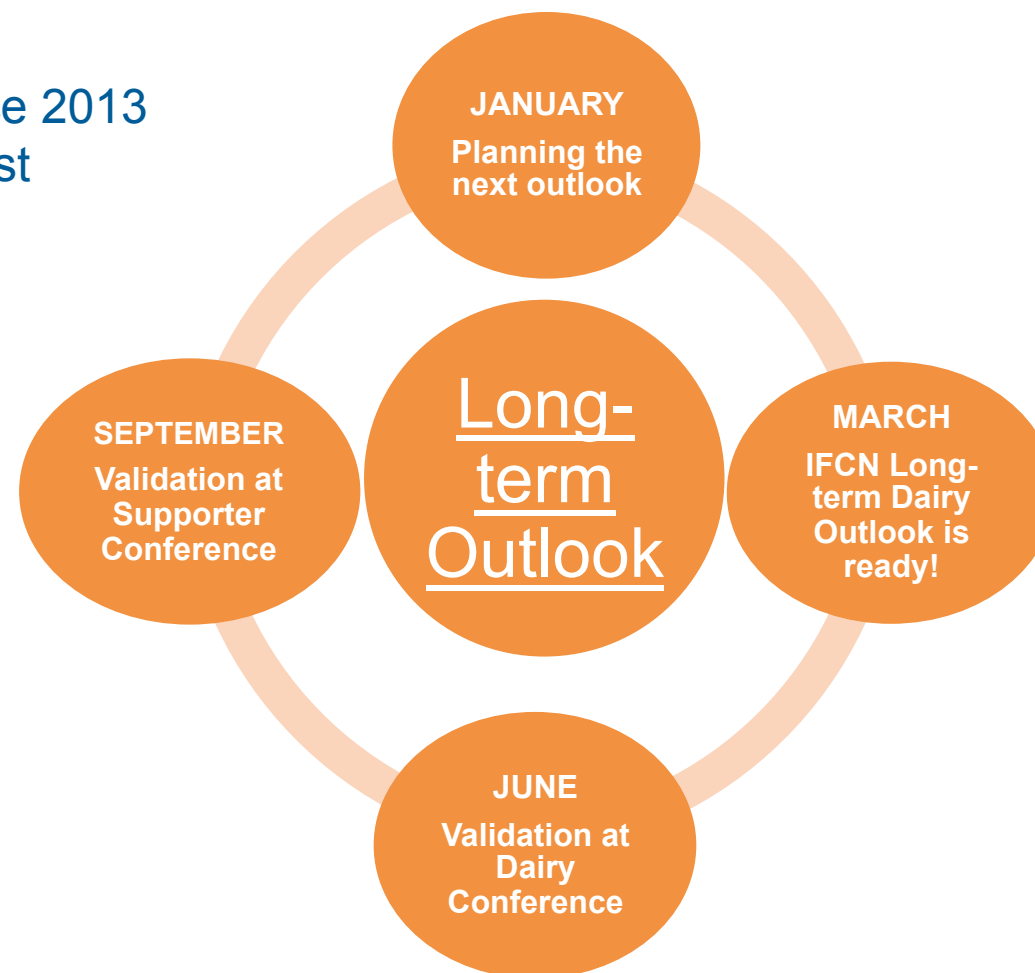
What is the IFCN Long-term Dairy Outlook:

It has been an ongoing research project in IFCN since 2013
It is a database ex post 1996–2017 & 13 year forecast
It covers 200 countries and has comparable data

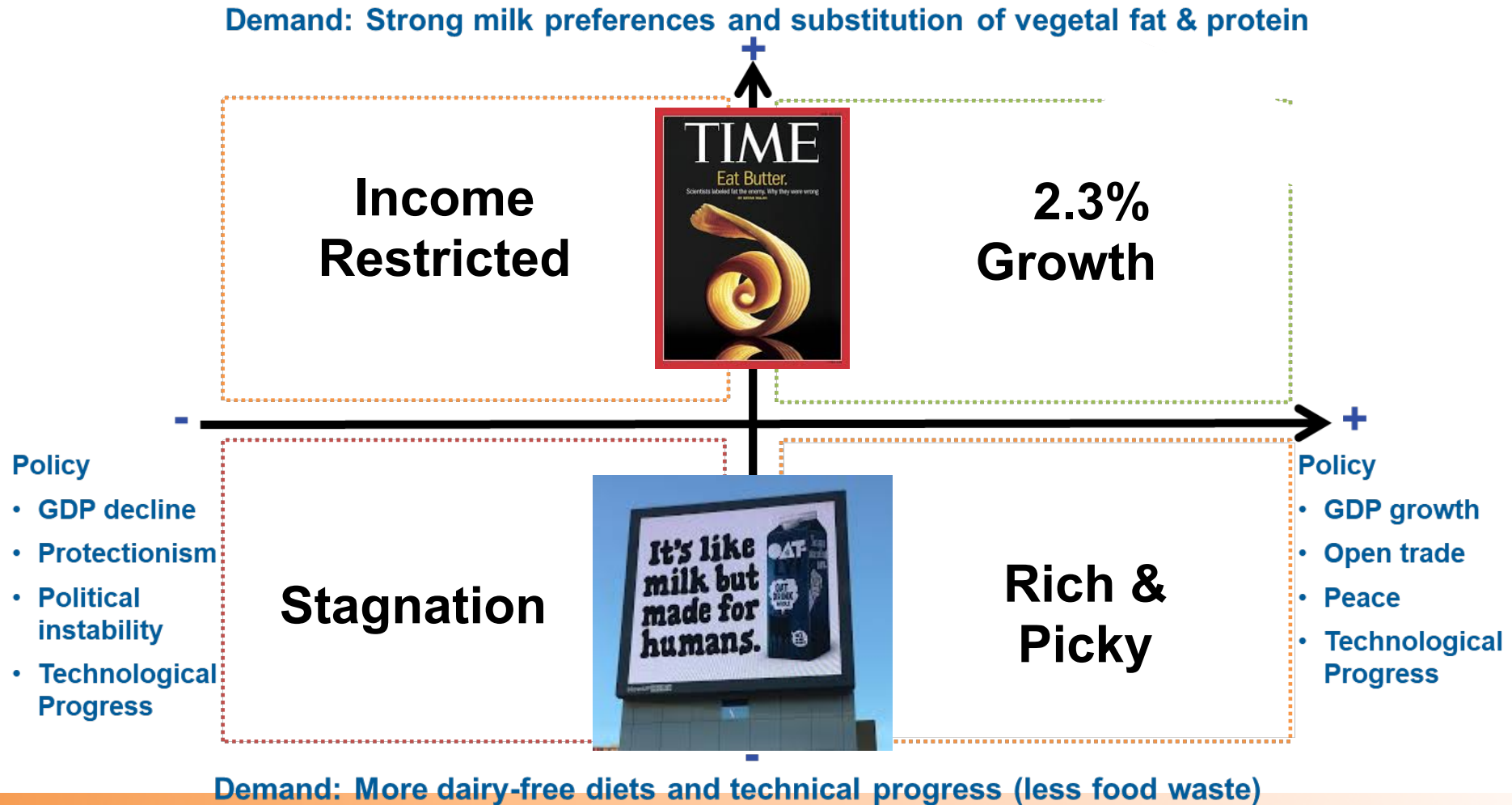


Method – Iterative supply & demand simulation:

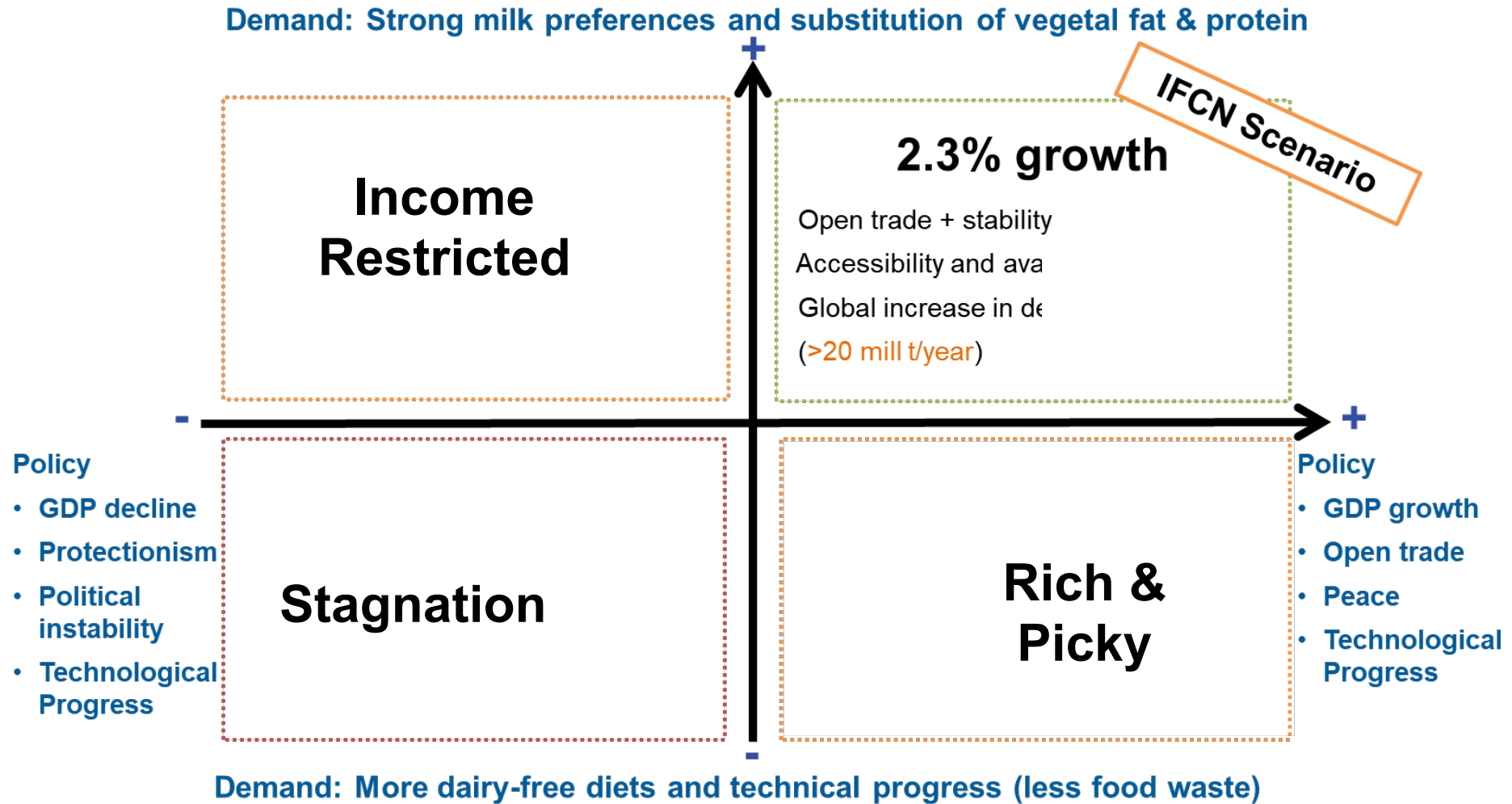
1. Define a scenario + technical assumptions
2. Simulate milk supply and demand per country
3. Search for the balancing world milk price level



IFCN Long-term Dairy Outlook Scenarios



IFCN Long-term Dairy Outlook Scenarios



Dairy World in 2007 / 2017 / 2030

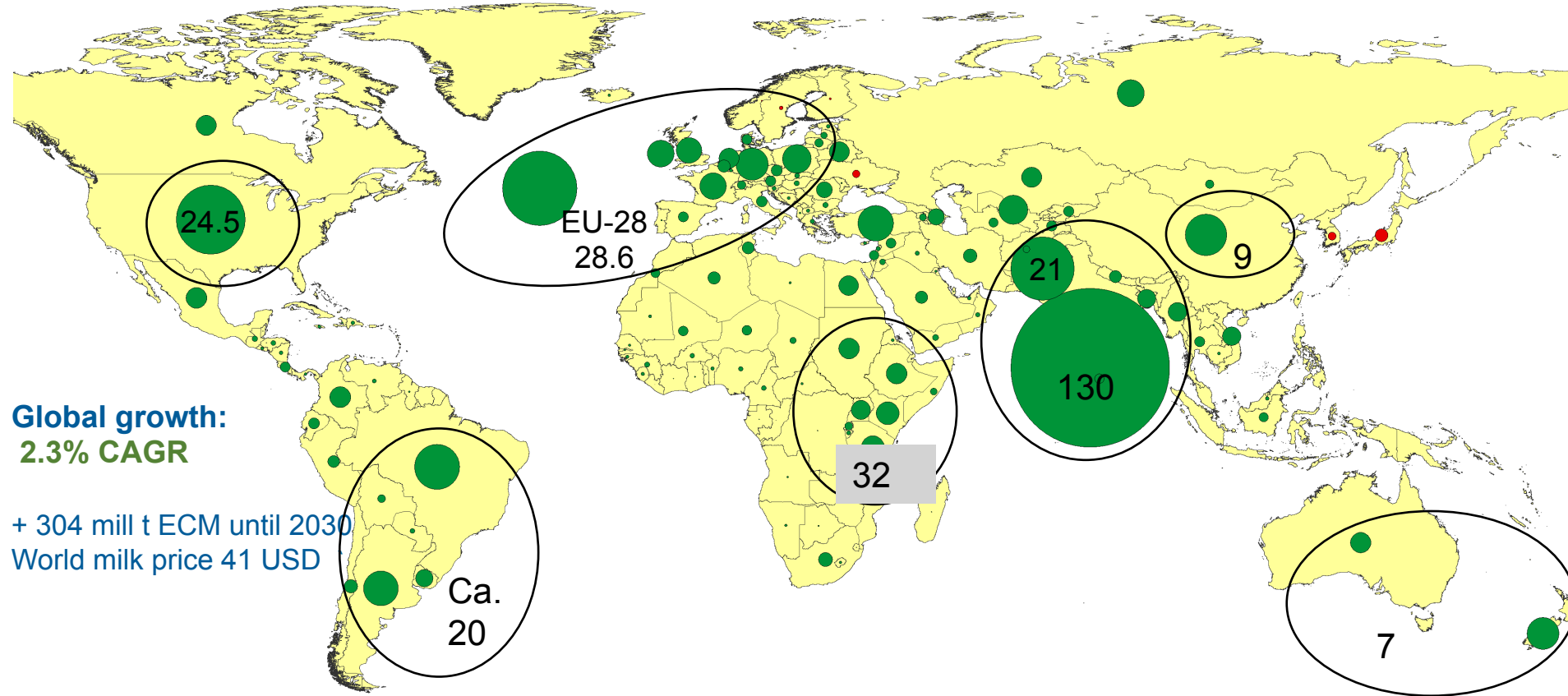
World	Unit	Annual values			Change 2030 vs 2017		
		2007	2017*	2030	Absolute	%	CAGR %/year
Milk supply and demand							
Milk production ≈ milk demand**	mill t ECM	696	864	1168	304	35%	2.3%
World trade							
Excl. EU-28 intra trade***	mill t ECM	36	55	95	40	73%	4.3%
Supply drivers							
Number of milk animals	mill head	332	372	417	45	12%	0.9%
Average milk yield	t / milk animal / year	2.0	2.2	2.7	0.5	23%	1.6%
Farm number							
Average farm size	head / farm	2.8	3.1	4.0	0.9	29%	2.0%
Demand drivers							
Population	billion	6.6	7.5	8.7	1.2	16%	1.1%
Dairy consumption per capita	kg ME/ capita/ year	104	116	135	19	16%	1.2%



Where and how will the milk of the future be produced?



World milk production growth until 2030



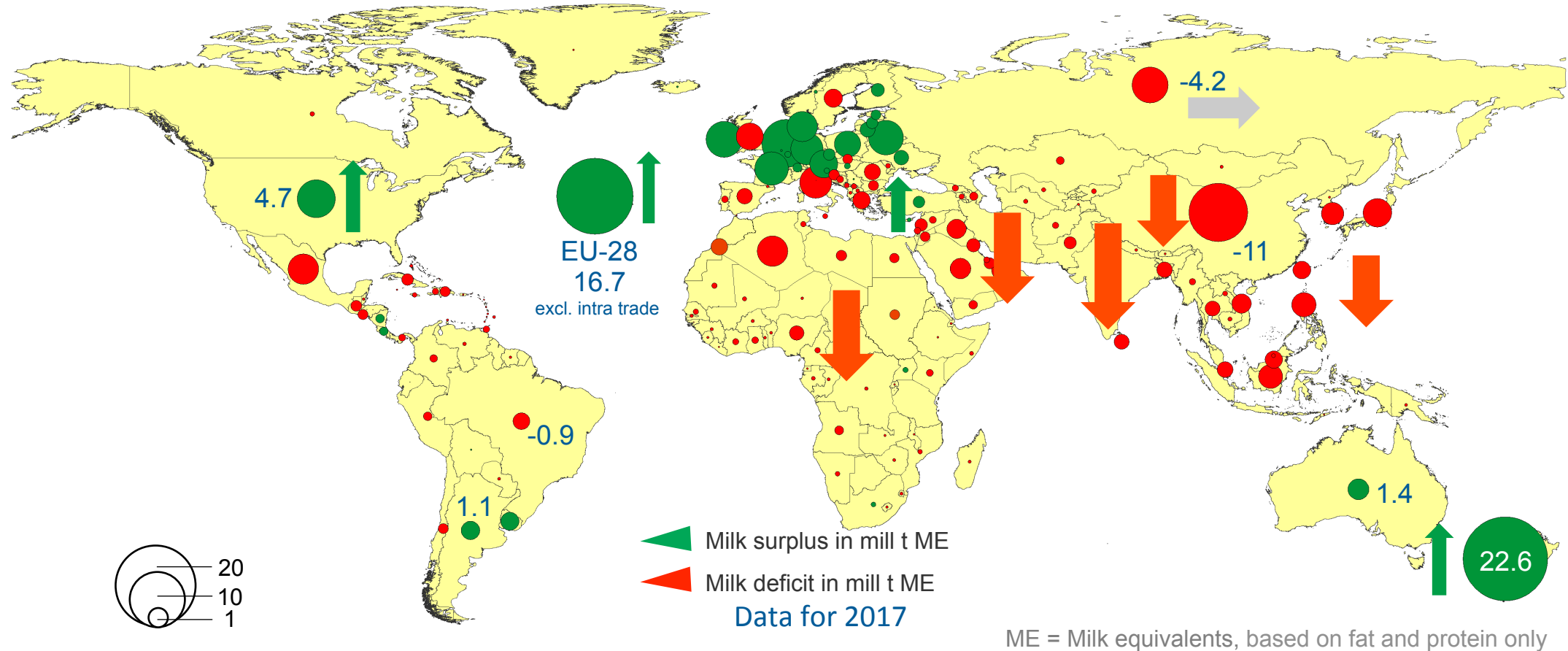
Global growth:
2.3% CAGR

+ 304 mill t ECM until 2030
World milk price 41 USD

● Milk production growth 2030 vs 2017 (all milk) in mill t ECM



Milk surplus and deficit per country 2017 + forecast 2030

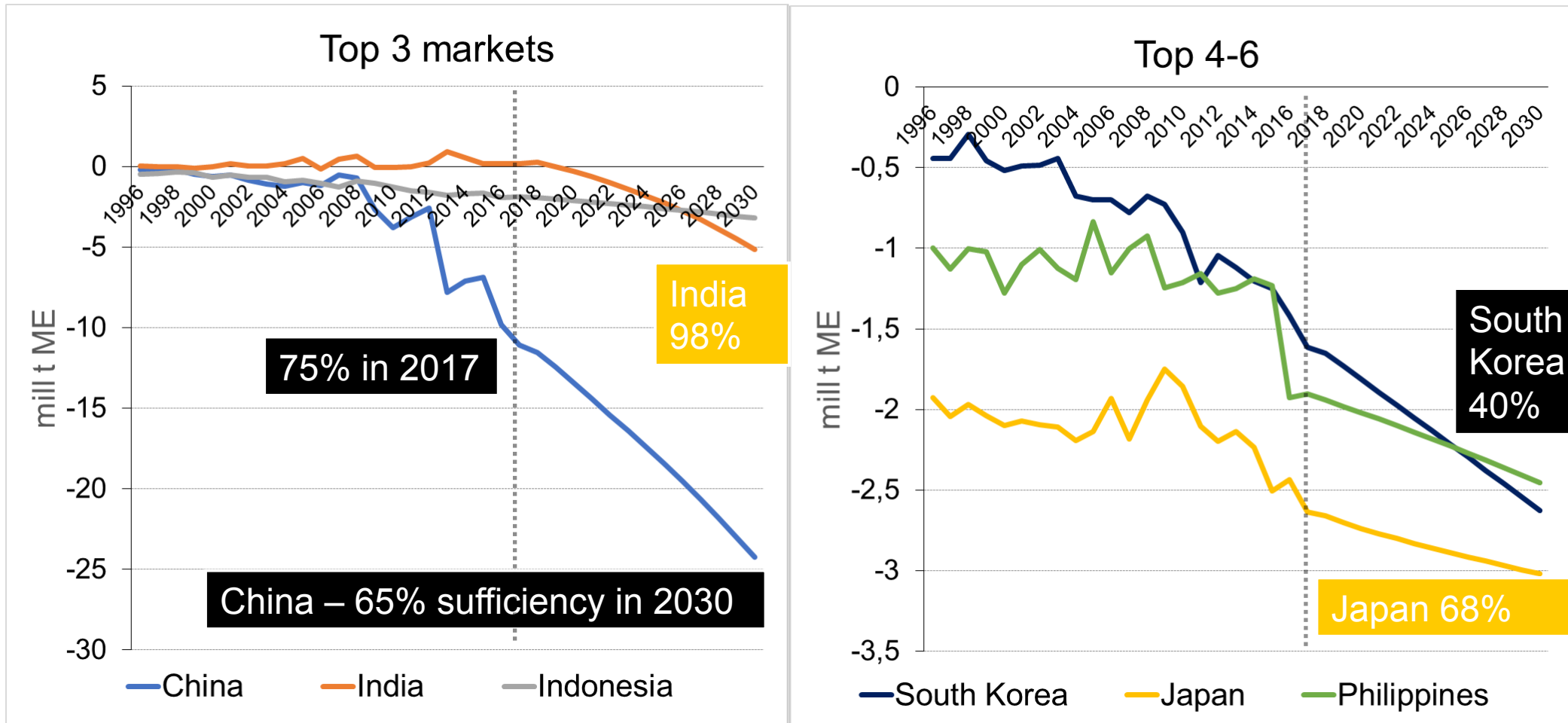


New Zealand and the EU-28 provide ~70% exports

New net exporters: India, Iran, Turkey, Uganda, South Africa, Costa Rica, Nicaragua



Surplus & deficit: Top 6 Asian countries



Summary



1. Last 20 year: Milk demand and supply grew + 60% = + 324 mill t milk

2. 2030: Consumer trust in dairy and “policy” are key uncertainties.

3. 2030: IFCN predicts growth 2,3% per year = + 304 mill t milk more;

4. What can we do better

a) Tell the great dairy story more and better

b) Creativity + thinking out of the box is needed to win the future

c) Start benchmarking ideas + identify the top shots



Acknowledgement



The cooperation of these people and companies made this presentation possible



**Network of IFCN
Researchers**



**Network of IFCN
Supporters**



**People in the IFCN
Center**

